INTERNATIONAL SEARCH REPORT

Int nal Application No PCT/GB2004/003151

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 B01D53/32 A61L9/22
H01T19/00

F24F3/16

H01T23/00

C01B13/11

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 B01D A61L F24F H01T B01J C01B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category •	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
X	EP 1 348 448 A (SHARP KK) 1 October 2003 (2003-10-01) page 12, paragraph 84 - page 13, paragraph 90	1-12		
	page 34, paragraph 301 - page 35, paragraph 307 page 36, paragraph 322 - page 37, paragraph 334; figures 1,51			
X	& WO 02/17978 A (SEKOGUCHI YOSHINORI; MIYATA AKIO (JP); ITO TOMOHISA (JP); KOHAMA TAKA) 7 March 2002 (2002-03-07)	1–12		
X	GB 2 358 350 A (MCDOUGALL DAVID SCOTT; HALLAM DAVID RICHARD (GB)) 25 July 2001 (2001-07-25) cited in the application the whole document	1-8,12		
	-/			

Further documents are listed in the continuation of box C.	χ Patent family members are listed in annex.
Special categories of cited documents: A' document defining the general state of the art which is not considered to be of particular relevance E' earlier document but published on or after the international filing date L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) O' document referring to an oral disclosure, use, exhibition or other means P' document published prior to the international filing date but tater than the priority date claimed	 *T* later document published after the international filing date or priority date and not in conflict with the application but clied to understand the principle or theory underlying the invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. *&* document member of the same patent family
Date of the actual completion of the international search 5 November 2004	Date of mailing of the international search report 15/11/2004
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentiaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Fax: (+31-70) 340-3016	Authorized officer Eijkenboom, A

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INTERNATIONAL SERVICE VELOCIE

Int₁ anal Application No PCT/GB2004/003151

Category •	etion) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	Retevant to claim No.
	The state of the s	Persyant to cisim No.
X	WO 03/028880 A (ATMOSPHERIC GLOW TECHNOLOGIES; KELLY-WINTENBERG KIMBERLY (US); SOUTH) 10 April 2003 (2003-04-10) page 11, paragraph 36 - page 12, paragraph 41 page 21, paragraph 67; figures 1-10	1,5,6,9, 10,12
X	US 5 087 428 A (WELFORD BARRY ET AL) 11 February 1992 (1992-02-11) column 3, line 24 - column 5, line 64; figures 1-6	1-7,9, 10,12
X	US 2003/131439 A1 (WEN SHEREE H) 17 July 2003 (2003-07-17) paragraph '0025! - paragraph '0031!; figures 1-7	1,2,5-8, 12
X	EP 0 824 041 A (WEIN PRODUCTS INC) 18 February 1998 (1998-02-18) column 1, line 51 - column 2, line 38 column 3, line 34 - column 5, line 12; figures 1-5	1,2,5-8, 12
A	DE 298 08 126 U (EUROMEDICO MEDIZINTECHNIK GMBH) 3 September 1998 (1998-09-03) page 4, paragraph 6 - page 5, paragraph 1 page 6, paragraph 5 - page 10, paragraph 1; claims; figures 1,2	1-12
	·	
	·	
	·	

INLEHNATIONAL SEARCH REPURT

ormation on patent family members

Int onal Application No
PCT/GB2004/003151

Patent docu cited in searc		Publication date		Patent family member(s)		Publication date
EP 13484	48 A	01-10-2003	JP	2002065836	A	05-03-2002
			JP	2002078788		19-03-2002
			JP	3415108	B2	09-06-2003
			JP	2002089868		27-03-2002
			JP		B2	22-09-2003
			ĴΡ	2002102327		09-04-2002
			JP	3415110		09-04-2002
			JP		A	
			JP	2002115889		19-04-2002
			JP		A	19-04-2002
				2002228180	A	14-08-2002
			JP		A	27-08-2002
			JP		A	28-08-2002
			JP	2002243198		28-08-2002
			JP	2002263182		17-09-2002
			AU	8018901		13-03-2002
			EP	1348448		01-10-2003
			US	2004007000		15-01-2004
			WO	0217978		07-03-2002
			TW	490546		11-06-2002
			ĴР	2002216933		02-08-2002
			JP	2002210933		21-11-2003
WO 02179	78 A	07-03-2002	JP	2002065836	Α	05-03-2002
			JP	2002078788	Α	19-03-2002
			JP	3415108		09-06-2003
			JP	2002089868		27-03-2002
			ĴΡ	3450287		22-09-2003
			ĴΡ	2002102327		09-04-2002
			JP	3415110		09-06-2003
			JP	2002115861		19-04-2002
			JP	2002115889		19-04-2002
			JP	2002115889		
			JP	2002238993		14-08-2002
						27-08-2002
			JP	2002243243		28-08-2002
			JP	2002243198		28-08-2002
			JP	2002263182		17-09-2002
			AU	8018901		13-03-2002
			EP	1348448		01-10-2003
			WO	0217978		07-03-2002
			TW	490546		11-06-2002
			US	2004007000		15-01-2004
			ĴP	2002216933		02-08-2002
			JP	2003332023		21-11-2003
GB 2358	350 A	25-07-2001	NONE			
WO 0302	3880 A	10-04-2003	EP	1450944	A1	01-09-2004
-			WO	03028880		10-04-2003
			ÜS	2004184972		23-09-2004
US 5087	128 A	11-02-1992	AU	7887091		31-12-1991
			CA	2083967		01-12-1991
			WO	9118662		12-12-1991
			DE	69112211		21-09-1995
			DE	69112211		18-04-1996
			EP	0532547		24-03-1993
				UJJJZ 234 /	\sim 1	44-43-1993
			ĴΡ	5507437		28-10-1993

INTERNATIONAL SEAUCH RELOW!

formation on patent family members

Int nal Application No
PCT/GB2004/003151

Patent document cited in search report		Publication date	Patent family member(s)		Publication date	
US 2003131439	A1	17-07-2003	EP WO	1471989 03059492		03-11-2004 24-07-2003
EP 0824041	A	18-02-1998	US EP JP US US	5667564 0824041 10180139 6042637 5814135	A2 A A	16-09-1997 18-02-1998 07-07-1998 28-03-2000 29-09-1998
DE 29808126	U	03-09-1998	DE	29808126	U1	03-09-1998

Form PCT/ISA/210 (patent family annex) (January 2004)